Biological Resources Management

Alternatives for the biological resources of the LHFO planning area are described in this section. The four main areas of consideration are: vegetation management, fish and wildlife habitat management, special status species management, and invasive or noxious species management. Tables 2-28, 2-29, and 2-30 below contain alternatives for the management of the natural community types and for the species that are currently present within the planning area. All of the federally listed threatened, endangered, or candidate species listed in Table 3-3, and all of the species of concern (BLM sensitive and state designated species) listed in Table 3-4 are considered "Priority Wildlife."

Conservation measures applicable to the LHFO planning area were derived from the Lower Colorado River Multi-Species Conservation Plan (MSCP). The plan represents a comprehensive species conservation approach to both federal actions and non-federal activities on the lower Colorado River. This unique conservation partnership includes federal, state, tribal participants and other stakeholders in Colorado River waters. In addition, this program represents a unique partnership among a number of agencies within the U.S. Department of the Interior. Department of the Interior Secretary Norton also directed all participating agencies within the Department of the Interior to utilize their authorities in furtherance of this conservation program to the fullest extent allowed by law. Rather than undertaking piecemeal, action-by-action activities in compliance with the Endangered Species Act of 1973 (ESA), the Lower Colorado River Multi-Species Conservation Plan is designed as a comprehensive approach to species conservation. All participating departmental officials are directed to cooperate and implement such agreements to achieve the important species conservation actions identified within the MSCP.

For additional Land Use Allocations, refer to the "Mineral Resources" section of this chapter and to the Land Health Standards at the beginning of this chapter. See the "Special Area Designations" section of this chapter for proposed Wild and Scenic Rivers. See the "Lands and Realty Program" section of this chapter for additional Management Actions related to utility corridors and telecommunication sites.

Vegetation Management

The LHFO Strategy for Resource Management is a series of management activities used to ensure that all resource activities meet the Arizona Standards for Rangeland Health and Guidelines for Grazing Administration (Standards and Guidelines) that are discussed in the "Continuing Management Guidance" section of this chapter. Management practices would promote sufficient vegetation across the landscape to maintain watershed stability, provide forage, improve or restore riparian-wetland functions, enhance groundwater recharge, and satisfy state water quality standards appropriate to climate and landform. LHFO would continue to coordinate with cooperating agencies to find opportunities for enhancement of vegetation health, particularly in riparian areas.

Priority plant species for the LHFO are:

- Mesquite all species (*Prosopis* sp.)
- Smoketree (Psorothamnus *spinosus*)
- Ironwood (Olneya tesota)
- Saguaro (Carnegiea gigantea)
- Joshua tree (Yucca *brevifolia*)
- Singleleaf pinyon pine (*Pinus monophylla*)
- Arizona rosewood (Vauquelina californica)
- Gooddings willow (Salix gooddingii)
- Netleaf hackberry (Celtis reticulata)
- Cottonwood (Populus fremontii)
- Quailbush (Atriplex lentiformis)
- Scaly-stemmed sand plant (*Pholisma arenaria*)

Fish and Wildlife Habitat Management

The objective is to restore, enhance, or maintain habitats and to mitigate for the loss of habitats to sustain or increase fish and wildlife populations. Native species diversity, natural distribution, and abundance of fish and wildlife species in the LHFO planning area are priorities, and BLM will cooperate with state and federal authorities to perpetuate a fully functional ecosystem through employment of the following processes:

- Identify and seek remedy for water quality limitations for fish production.
- Manage for diverse, sustainable habitats.
- Allow for a mosaic of habitats.
- Minimize habitat fragmentation.
- Minimize restrictions to wildlife movement.
- Implement conservation and recovery plans where applicable.
- In cooperation with other agencies, reestablish, extend the historic range of, and/or supplement populations when determined necessary to sustain local species populations
- Manage for a vegetative community that meets the needs of wildlife.
- Support adaptive management, based on the best available science.
- Allow for wildlife waters, as needed to achieve state or federal wildlife agency strategic planning objectives.
- Create travel corridors to minimize restrictions to wildlife movement.

- Support research efforts.
- Provide aquatic habitat where limited.

Please note that the term "priority wildlife habitat area," an allocation specified in the 1987 *Yuma District Resource Management Plan* (YRMP), has been updated by BLM. The geographical areas referred to in that plan are now termed Wildlife Habitat Management Areas, or WHAs.

Special Status Species Management

Special status species includes federally listed endangered, threatened, proposed, and candidate species, and designated or proposed critical habitat; species of concern managed under Conservation Agreements or Management Plans; state-listed species; and BLM-sensitive species.

ESA, as amended, is the authority to conserve endangered or threatened species on public lands. Section 4(f) of ESA directs the Secretary of the Interior to develop and implement recovery plans for the conservation and survival of endangered species. Section 7(a)(2) of ESA states, "Each federal agency shall, in consultation with and with the assistance of the Secretary of the Interior, ensure that any action authorized, funded, or carried out by such agency is not likely to jeopardize the continued existence of any endangered or threatened species or result in the destruction or adverse modification of habitat of such species which is determined to be critical." Section 7(a)(l) of ESA states, "All...federal agencies shall utilize their authorities in furtherance of the purposes of this Act by carrying out programs for the conservation of endangered species and threatened species." Information on special status species known to occur within the LHFO planning area is provided in Appendix J.

BLM will actively seek opportunities to conserve and improve special status species habitats and habitats for native wildlife.

Invasive or Noxious Species Management

Invasive or noxious species collectively constitute one of the gravest threats to the biodiversity of BLM lands. Two critical components of managing these species are (1) identifying those species that threaten biodiversity and other ecological functions and values, and (2) prioritizing species for management efforts, which must be based, at least in part, on the ecological impacts imparted by these invaders. This section proposes alternatives for managing this threat within the LHFO planning area.

Table 2-28. Biological Resource M	anagement-Desire	d Future Conditions		
Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
Not specifically addressed in previous plans	will follow the guidance Partners in Flight Bird	Migratory Bird species (see provided within the Mic Conservation Plan, Partn WS) North American Wa	gratory Bird Executive O ers in Flight Land Conser	order 13186, Arizona evation Plan, U.S. Fish and
Not specifically addressed in previous plans		or quality of priority spe wildlife and priority plant		its would occur on the
Not specifically addressed in previous plans		work toward the recovery lihood of additional speci		
Not specifically addressed in previous plans		as of native species current augmentation, would be ac		and those species whose
The following decision is derived from the 1987 YRMP and will be applicable to the lands covered by that plan:	Soils would maintain or erosion rates.	or increase biological prod	ductivity and would exhib	it no more than natural
Soils would be managed to maintain biological productivity and to minimize erosion.				
The following decision is derived from the 1987 YRMP and is applicable to the lands covered by that plan:	Wildlife habitat projec	ts would be designed to n	naintain, restore and impr	ove species biodiversity.
Wildlife habitat improvement projects would be implemented where necessary to stabilize or improve unsatisfactory or declining wildlife habitat condition. These projects would be identified through cooperative management plans (under the Sikes Act) or coordinated resource management activity plans (e.g., AGFD, CDFG, USFWS plans etc).				

Table 2-28. Biological Resource Management–Desired Future Conditions				
Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
Not specifically addressed in previous plans	Ecosystems would be wildlife habitat requi		conjunction with vegetati	on, aquatic, and terrestrial
Not specifically addressed in previous plans		nities (Appendix J, Table J	-1) would be maintained a	ppropriate to climate and
	 provide watershe 	ed stability,		
	 provide adequate 	e forage for native wildlife	species,	
	improve or resto	re riparian-wetland function	ons,	
	 enhance ground 	water recharge, and		
	 satisfy state water 	er quality standards.		
Not specifically addressed in previous plans	Wildlife movement of	corridors would be maintai	ned for biotic diversity.	
The following decision is derived from the 1987 YRMP and will be applicable to the entire planning area:		asive and noxious species of decline in aerial extent, de		t the planning area and
The Yuma District will discourage the introduction of "exotic" species on public lands.				
Not specifically addressed in previous plans	Natural springs, wetl	ands, seeps and streams we	ould be conserved, enhance	ed, and restored.
	BLM would manage sustainable public be	all wildlife habitats with the nefits.	ne objective to conserve na	ative species for
	species would be ma	s, lek sites and maternity s intained. Food and water s	ources would be conserved	d and protected.
Not specifically addressed in previous plans	potential nesting tree	d quantity of riparian areas s and adequate prey base f estern yellow-billed cucko	or riparian obligate specie	

Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
The following decision is derived from the KRMP and is applicable only to the lands covered by that plan:	threatened and endar	ngered wildlife and depend	o support habitat to supply dent riparian vegetation or g water rights for wildlife	n public lands in the Bill
Management would maintain instream flows to support habitat to supply aquatic, terrestrial, and threatened and endangered wildlife and dependent riparian vegetation on public lands in the Bill Williams River through securing and protecting water rights for wildlife habitat.				

Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
The following decision is derived from the 1987 YRMP and is applicable to the lands covered by that plan.		59 acres of public lands we tortoise and Mojave deser		
Approximately 520,220 acres of public	• Category I - 108,4	199 acres		
lands would be allocated for management as	 Category II - 286, 	388 acres		
Category I, II, or III desert tortoise habitat.	 Category III - 573 	3,767 acres		
	 Mojave - 49,105 a 	acres		
The following decision is derived from the 1995 KRMP and is applicable to the lands covered by that plan:	In Category I and II destortoise populations wou	ert tortoise habitat, only ra ald be allowed.	inge improvements that v	vill not conflict with
In Category I and II desert tortoise habitat, only range improvements that will not conflict with tortoise populations would be allowed.				
Not specifically addressed in previous plans		al status species uses that be restricted as determined		
The following decision is derived from the 1987 YRMP and is applicable to the lands covered by that plan:	Within WHAs established for special status species, specific	Within WHAs established for special status species, specific	Route designation wou and limitation on route (See "Transportation ar	
Off-highway vehicle use in priority habitat areas is limited to existing roads and trails.	routes or portions of specific routes would be closed to vehicular traffic during the seasons when the habitats are being utilized.	routes or portions of specific routes would be closed to vehicular traffic during the seasons when the habitats are being utilized when usage would adversely impact the species.		
The following decision is derived from the KRMP and is applicable only to those lands covered by that plan:	New facilities and campgrounds would be located outside the	New facilities and campgrounds would be located at an	New incompatible facilities and campgrounds would	New facilities and campgrounds would be located away from
Restrict development of campgrounds to	100-year floodplain	appropriate distance	be located outside	riparian wetland areas

areas outside of riparian zones and the	and not near riparian-	away from riparian-	existing riparian-	if they were
100-year floodplain.	wetland areas. Existing facilities would be used in a way that does not conflict with riparian- wetland functions or relocated when incompatible with riparian-wetland functions.	wetland areas if they conflict with achieving or maintaining riparian-wetland function.	wetland areas. Existing facilities would be used in a way that is compatible with riparian-wetland functions or relocated/modified when incompatible with riparian-wetland functions.	incompatible with achieving or maintaining riparian wetland function.
	The distance "near" depends on species utilizing area.			
The following decision is derived from the KRMP and is applicable only to those lands covered that plan:	In addition to Alternative 1: LHFO would protect all	LHFO would designate OHV routes and/or ROWs into	to authorized users (see Map 2-41).	niting wood collection
Limit off-highway vehicle us in riparian areas to designated road and trails (Three Rivers ACEC). The following decision is derived from the 1987 YRMP and is applicable only to the lands covered by that plan:	woodlands, including mesquite bosques, by allowing no wood collection and excluding all motorized vehicular use (Map 2-41).	woodlands, including mesquite bosques.		
In the Bill Williams Riparian Management Area, no additional mineral material removal permits or utility ROWs would be authorized. OHV use would continue to be limited to existing roads and trails.	350 (Map 2 11)			
The following decision is derived from the 1983 LGNMFP and is applicable to the lands covered by that plan:	This decision is not carr	ied forward. See "Rangel	and Management/Grazing	" section.
Allocate additional forage to big game species as forage production increases, so that carrying capacities can be increased to those listed in this objective and decrease				

Table 2-29. Biological Resource Management-Land Use Allocations

browse utilization by 10% in the Loma Linda and Lamberson allotments.

The following decision is derived from the 1995 KRMP and is applicable only to the lands covered by that plan:

Wildlife movement corridors and lands between mountains in southern Mohave County would be established A total of 15 wildlife movement corridors identified on the map would be managed to enable free wildlife movement (see Map 2-42).

The Buck Mountain Wash wildlife movement corridor would continue to be managed to protect free wildlife movement (see Map 2-42).

Six wildlife movement corridors would be allocated, the following corridors identified on Map 2-42: Corridors 1, 2, 5, 7, 13, and 14.

The following decisions are derived from the 1987 YRMP and are applicable to the lands covered by that plan:

Roads traversing bighorn sheep lambing grounds (11,100 acres) are closed during the lambing season from January 1 to June 30. Exceptions to this seasonal closure may be made through applicable Federal regulations for rights-of-way, mining, and off-road vehicle uses

Protect bighorn sheep lambing areas and a 2-mile buffer zone (20,000 acres) in the Little Harquahala Mountains and Harquahala Mountains from habitat and behavioral disturbances created by: a) land disposal; b) excess fencing; c) structure building; d) land clearing and wood cutting; e) mining activity between December 15 and April 15 (within the framework of the 3809 regulations); f) road building; g) intense recreational use and development; h) rights-of-way; and i) utilization of key browse in excess of 40%.

In any identified desert bighorn sheep lambing grounds, no motorized vehicles would be allowed off paved roads from January 1 through June 30. This restriction would not include authorized agency service vehicles for authorized ROWs or for ownership access to private land (with the exception of the Aubrey Hills area, which has a vearlong closure) (see Map 2-43)

In any desert bighorn sheep lambing grounds, motorized vehicles would be allowed on existing roads (with the exception of the Aubrey Hills.) (See Map 2-43.)

In any identified desert bighorn sheep lambing grounds, no motorized vehicles would be allowed off paved roads from January 1 through June 30. This restriction would not include authorized agency service vehicles for authorized ROWs or for ownership access to private land (with the exception of the Aubrey Hills area, which has a vearlong closure) (see Map 2-43)

Exception: The Little Harquahala lambing grounds would not be seasonally closed to vehicles (see Map 2-43).

Desert bighorn sheep lambing grounds would be allocated (Map 2-43) for special seasonal management between January 1 and June 30 (closed though the end of June to protect young lambs) with the exception of the Lake Havasu Aubrey Hills area, which has a yearlong closure. The Little Harquahala lambing grounds would not be seasonally closed to vehicles (see "Transportation and Public Access").

Not specifically addressed in previous plans	(including sheep and goats) would be allowed for weed	Livestock use (including sheep and goats) would be allowed where feasible for weed reduction.	Domestic or feral sheep or goats would not be allowed on public lands within 9 miles of desert bighorn habitat.
The following decisions are derived from the 1987 YRMP and is applicable only to the lands covered by that plan: Wildlife habitat would be a priority consideration for the 243,100 acres in the LHFO planning area. Areas with important wildlife values will be referred to as WHAs. Bighorn sheep yearlong use areas (163,200 acres) would continue to be managed as priority wildlife habitat areas. All of the remaining riparian areas administered by LHFO along the Colorado and Bill Williams Rivers (approximately 5,000 acres) would be managed as WHAs. The Riparian Management Area (see Map 2-44). Riparian areas around springs would also be managed as priority habitat in order to maintain their high value for wildlife. Allowable uses within the Bill Williams Riparian Management Area are limited to compatible activities or uses, which preserve or enhance the area's recognized values. Improvements are limited to those compatible with the natural resources and those permitted by mining laws.	,	WHAs would not be established.	737,127 acres in the LHFO planning area would be cooperatively managed as WHAs with state and federal wildlife agencies. See Table 2-2 and Map 2-40. This land is comprised of (some of these areas overlap leading to the smaller total acreage); Riparian Habitat, Springs & Seeps (6,126acres) Bighorn Sheep Habitat (562,022acres) Mojave & Sonoran Desert Tortoise Habitat (I,II) (440,599acres) Wildlife Corridors (91,835acres) T&E Species Habitat
The following decision is derived from the 1987 YRMP and is applicable to the lands	This allocation was not car	rried forward.	

Table 2-29. Biological Resource Ma	anagement-Land U	se Allocations	
covered by that plan:			
Allowable uses on WHAs would include compatible activities or those uses whose impacts would be mitigated to preserve or enhance wildlife values			
The following decision is derived from the 1987 YRMP and is applicable to the lands covered by that plan:	Allowable uses in WHAs would include activities that benefit	New developments on WHAs would be compatible with	New developments on WHAs would be compatible with wildlife habitat to the extent possible to preserve, maintain, and/or enhance
Improvements on priority wildlife areas would be restricted to those that are compatible with wildlife habitat or cultural resources and those required by mining.	wildlife habitat.	wildlife habitat to the extent possible.	plant and wildlife diversity.
The following decision is derived from the 1995 KRMP and is applicable to the lands covered by that plan:	Domestic or feral sheep bighorn habitat.	or goats would not be all	owed on public lands within 9 miles of desert
Domestic or feral sheep or goats would not be allowed on public lands within 9 miles of desert bighorn habitat.			
The following decision is derived from the 1987 YRMP and is applicable to the lands covered by that plan:	Domestic and commerc authorized	ial collection or sales of fi	uel wood for home heating purposes would not be
Domestic and commercial collection or sales of fuelwood for home heating purposes would not be authorized.			

Table 2-29. Biological Resource Management-Land Use Allocations

Not specifically addressed in previous plans

For the protection of bighorn sheep habitat and other natural values, no motorized vehicles would be allowed within the Lake Havasu Aubrey Hills Area. This restriction does not include authorized vehicles for administrative purposes, authorized ROWs, lands under R&PP lease/patent, and ownership access to private land.

BLM, in cooperation with other authorities, would allocate 75 acres at the Colorado River Nature Center, Three Mile Lake, and Beale Slough to be used for spawning and rearing habitat for special status fish species (see Map 2-45).

Spawning, nesting, brood rearing, or larval fish rearing habitat used by special status species would be identified as Fish Habitat Areas (FHAs). Incompatible uses or development, modification, and/or negative impacts where practicable would not be allowed.

An area of 7 acres of Lake Havasu bottom would receive organic brush maintenance each year to replace woody habitat improvements that have decomposed over the previous 10-year period. This process would occur only in areas that already contain fish habitat improvements.

Approximately 875 acres in 42 separate locations in Lake Havasu would be designated as FHAs.

The facility known as Partners Point (see Map 2-45) would be retained and maintained by BLM and cooperating parties to facilitate aquatic habitat management and other BLM management requirements.

Table 2-30. Biological Resource Management-Management Actions

Alternative 1 (No Action)

Alternative 2

Alternative 3

Alternative 4

Alternative 5
(Preferred)

Conservation Measures Common to All Alternatives

Migratory Bird Executive Order 13186, Arizona Partners in Flight Bird Conservation Plan, Partners in Flight Land Conservation Plan, USFWS North American Waterfowl Management Plan, other bird Conservation Plans and MSCP.

- To the extent practicable, avoid, minimize impacts and/or take of migratory birds and their habitat.
- During construction and tree pruning, identify and avoid all migratory bird nests.
- Conduct research to identify important migratory bird habitat and restore/enhance that identified habitat.
- Ensure that important habitats are managed, maintained, increased and improved to attain the vegetation structure plant species diversity and density to provide diverse habitat of quality and quantity (see Maps 2-40, 2-44 and 2-45).
- Mitigate adverse effects on migratory species habitat
- Replace important habitat that is lost due to BLM permitted activities.
- Initiate, collaborate, and/or support projects related to conservation measures set forth in the above plans,
- Identify potential bird conservation projects and seek grant funding.

Conservation tasks for the Western Yellow-billed Cuckoo.

- Increase enforcement of access into restricted areas.
- Avoid intense and repeated human disturbance from nesting areas especially from 20 May through 1 September.
- Increase cooperation between state and federal agencies and private organizations regarding Yellow-billed Cuckoo habitat.
- Establish riparian corridors and "island" habitats to allow natural dispersal and recolonization of historic habitats.
- Establish areas near existing occupied habitat for restoration, before focusing on areas further away.

Recovery tasks found in the *Mojave Desert Tortoise Recovery Plan and any revised plans*. When the recovery plan is revised and updated, new conservation measures applicable to the LHFO would be incorporated into the LHFO RMP.

- To the extent possible avoid and minimize impacts on the Mojave Desert Tortoise (MSCP)
- Protect existing occupied habitat (MSCP).
- No disposal of known occupied habitat
- Avoid impacts on individuals and their burrows.
- Develop increased awareness of tortoise resources on the public lands.
- Assure the all personnel working within desert tortoise habitat on public lands are knowledgeable about the tortoise and its resource.

Table 2-30. Biological Resource Management–Management Actions				
Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)

- Develop a strong awareness of tortoises and their habitats, particularly in the BLM planning, environmental assessment and budget processes.
- Complete and maintain a continuing inventory and monitoring program or tortoise populations and habitats to assist in making management decisions, including habitat categorization.
- Include monitoring provisions specific to decisions affecting the desert tortoise. Maintain a log of Environmental Assessments containing stipulations pertaining to the desert tortoise, for express purpose of tracking compliance and effectiveness of the stipulations. The monitoring of these stipulations and recommendations for improvement will be documented in the log.
- Develop and maintain a monitoring program specifically for land -use activities that adversely affect tortoise habitats for use in analyzing and responding to the cumulative impacts of land-use decisions on tortoise habitats.
- Comply with Section 7 (a) of the Endangered Species Act by caring out positive actions promoting and the recovery of listed and proposed populations, and by assuring that BLM actions do not jeopardize the continued existence of the desert tortoise (MSCP).
- Maintain stable, viable populations, and protect existing tortoise habitat values and increased populations were possible. Retain all-natural shelter sites, caliche caves, or similar features used by tortoises for sheltering and maintain unfragmented habitat.

Conservation measures found in the Sonoran Desert Tortoise Habitat Management on the Public Lands: A Rangewide Plan. (November 1988) and subsequent plans.

- No net loss of Category I and II Sonoran desert tortoise habitat
- In Category I and II Sonoran desert tortoise habitat, only range improvements that will not conflict with tortoise populations would be allowed. (See Map 2-39)
- Implement and/or support desert tortoise research and studies, especially relating to management issues and overall population viability.
- Manage tortoise habitats using an ecosystem management approach with emphasis on maintaining or restoring natural biological diversity.
- Institute a "no net loss" in quantity or quality of desert tortoise habitat especially in Category I and II habitat.
- Implement conservation strategies and recommendations in the Sonoran Desert Tortoise Conservation Strategy (in prep) by the Arizona Interagency Desert Tortoise Team.
- Recognize Key Habitat Areas designated by the Arizona Interagency Desert Tortoise Team and institute Management Actions that protect or enhance the viability of these areas.
- Recognize that Category III habitats may serve as important buffer and dispersal zones and provide genetic linkage to core population areas. Incorporate these areas into long-term and ecosystem management and planning.
- Develop and implement land acquisitions and disposals strategies that use the best available information to provide habitat to

Table 2-30. Biological Resource Management-Management Actions Alternative 1 (No Action) Alternative 2 Alternative 3 Alternative 4 (Preferred)

sustain viable populations of tortoises throughout their range.

- Enhance and restore habitat corridors that connect significant desert tortoise subpopulations.
- Coordinate and support efforts from AGFD and other agencies in the planning and implementation of strategies designed for long-term survival of tortoise populations.
- Incorporate information from current and future research and studies into short-term and long-term planning, especially new
 information on genetics, dispersal corridors, connectivity, and population viability.
- When possible employ a precautionary principle in tortoise habitat management using the best available information until specific and site specific research can be conducted.
- Recognize the importance of the tortoise as a keystone species, which via its burrowing systems provides habitats for many other species.
- Habitat management categories and boundaries would be revised as new scientific population information becomes available.
- BLM would address and include restoration measures in decision documents to offset the loss of quality or quantity of Category III tortoise habitat.
- In Category I and II tortoise habitats, all motorized and non-motorized competitive events would be restricted to avoid activities between March 31 and October 15; all other use requests would be reviewed on a case-by-case basis. Compensation for conflicts may be required to achieve protection of quantity or quality of desert tortoise habitat.
- Desert tortoise Management Actions appropriate to each category goal would be applied to habitat areas, consistent with the current desert tortoise management plan.

Recovery tasks found in the *Bonytail Chub Recovery Plan* and subsequent plans.

- Provide and protect adequate habitat and sufficient range for all life stages of endangered fish to support survival of recovering populations.
- Investigate habitat requirements for all life stages and provide those habitats where feasible.
- Provide leadership with other agencies to ensure adequate protection from over-utilization.
- Minimize the risk of hazardous materials spills and/or releases by BLM approved activities.
- Provide leadership to cooperatively quantify water-quality problems and affect long- term improvement.
- Provide for the long-term management and protection of populations and their habitats beyond delisting (i.e., conservation plans).
- Minimize the threats and adverse impacts to the bonytail chub and their habitats.
- Participate in an education program to increase public awareness of this species.
- Participate with other agencies in the recovery, conservation, research, management and monitoring activities (see Map 2-45).

Table 2-30. Biological Resource Management–Management Actions Alternative 1 (No Action) Alternative 2 Alternative 3 Alternative 4 Alternative 5 (Preferred)

Recovery tasks found in the Razorback Sucker Recovery Plan and subsequent plans.

- Provide and protect adequate habitat and sufficient range for all life stages of endangered fish to support survival of recovering populations.
- Investigate habitat requirements for all life stages and provide those habitats where feasible.
- Provide leadership with other agencies to ensure adequate protection from over-utilization.
- Minimize the risk of hazardous materials spills and/or releases by BLM approved activities.
- Provide leadership to cooperatively quantify water-quality problems and affect long- term improvement.
- Provide for the long-term management and protection of populations and their habitats beyond delisting (i.e., conservation plans).
- Minimize the threats and adverse impacts to the Razorback Sucker and their habitats.
- Participate in an education program to increase public awareness of this species
- Participate with other agencies in the recovery, conservation, research, management and monitoring activities (see Map 2-45).

Tasks found in Executive Order 12962 of June 7, 1995,

- Identify recreational fishing opportunities that are limited by water quality and habitat degradation and promote restoration to support viable, healthy, and, where feasible, recreational fisheries.
- Provide access to and promote awareness of opportunities for the public participation and enjoyment of U.S. recreational fishery resources.
- Support outreach programs designed to stimulate angler participation in the conservation and restoration of aquatic systems.
- Aggressively work with all federal agencies to identify and minimized conflicts between recreational fisheries and their respective responsibilities under the Endangered Species Act of 1973.

Recovery tasks found in the Southwestern Bald Eagle Recovery Plan 1982 and subsequent plans

- Achieve habitat quality and quantity of riparian areas within the foraging range of bald eagles to maintain nesting and wintering birds within the Bill Williams and Colorado River drainages (see Maps 2-44 and 2-45).
- Coordinate with the Southwestern Bald Eagle Management Committee to continue implementation of the guidelines set forth in the Arizona Conservation Assessment and Strategy Plan for the bald eagle in Arizona.
- Continue to support federal and state agencies efforts to protect and enhance breeding areas on all BLM lands.

Recovery tasks found in the Yuma Clapper Rail (YCR) Recovery Plan and subsequent plans. (USFWS 1983 and MSCP).

- Sample every five years all known regions where YCR populations are found using standardized techniques and develop and implement a plan of local population surveys every year.
- Preserve and maintain breeding habitat to support populations of YCR within LHFO.

Table 2-30. Biological Resource Management–Management Actions					
Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)	

- Preserve winter habitat of the YCR within the LHFO.
- Carry out a program of public conservation, education, and planning directed towards preservation of rail habitat.
- Maintain existing important YCR habitat areas.
- Avoid, minimize and/or mitigate to the extent possible disturbance in occupied territories during the breeding and molting seasons (March 15-September 1) (see Maps 2-44 and 2-45 for areas of possible habitat).

Recovery tasks found in the Southwestern Willow Flycatcher Recovery Plan and subsequent plans. (USFWS 2001 and MSCP).

- Continue to survey, monitor, and conduct research to improve the recovery of the Southwestern Willow Flycatcher.
- Carry out a program of public conservation, education, and planning directed towards preservation of rail habitat.
- Assure implementation of laws, policies and agreements that benefit the flycatcher
- To the extent practical, avoid and minimize disturbance of the Southwestern Willow Flycatcher during the breeding season.
- Riparian areas that could physically support Southwestern willow flycatcher habitats would be managed, maintained, increased, and improved to attain the vegetation structure plant species diversity, density, and canopy cover to constitute suitable habitat (see Maps 2-44 and 2-45 for habitat).

	Conservation Measur	res Specific to Alternat	ives
Not specifically addressed in previous plans	The use of certified weed-free hay would be required in all areas.	To help stop the spread of invasive or noxious species, BLM would provide educational material to equestrian users on the use of weed-free hay/palletized feed. BLM would encourage the use of weed-free feed for stock in WAs, WSAs, and areas managed for wilderness characteristics, and WHAs.	BLM would require the use of certified weed-free and domestic sheep free forage for all stock in WAs, WSAs, lands allocated for wilderness characteristics, and WHAs. BLM would encourage the use of certified weed-free and domestic sheep free for all other public lands within LHFO.

Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
Not specifically addressed in previous plans	Only native species would be allowed in landscaping designs and for use in rehabilitation of BLM-managed lands.	Only native vegetation would be utilized when possible in all landscaping designs. Concessions would be allowed to plant any drought-resistant species in their landscaping designs.	When possible, only nat utilized in all landscapin	ive vegetation would be ng designs.
Not specifically addressed in previous plans		ement projects would be in clining wildlife habitat co		ary to stabilize or
Not specifically addressed in previous plans	Riparian habitat not in proper functioning condition would be restored to proper functioning condition. Restoration efforts would emphasize use by several migratory birds, bat species, amphibians, fish, reptiles, and other special status species. These areas would be closed to motorized use or vehicular traffic.	Riparian habitat not in proper functioning condition would be restored to proper functioning condition. Restoration efforts would emphasize use by several migratory bird and bat species. These areas would be open for public access.	Riparian habitat not in proper functioning condition would be restored to proper functioning condition. Restoration efforts would emphasize use by several species. These areas would be closed or seasonally restricted to motorized use or vehicular traffic during the seasons when the special status species habitats are used.	BLM would manage for proper functioning condition within riparian areas and springs, but where hydrological modifications and soil conditions prohibits proper functioning condition, a desired plant community would be defined and managed appropriately (see Maps 2-40, 2-44, and 2-45).
Not specifically addressed in previous plans	wildlife populations wil within suitable habitat to genetic diversity; 2) con 3) restore or enhance na	ants, release of rehabilitat l be carried out in collabor c: 1) restore, enhance, ma serve or recover species the tive wildlife diversity and introduced, transplanted, of	ration with federal and sta intain current populations hat are in danger of becom	te wildlife agencies , distributions, and/or ning listed; and/or e rehabilitated wildlife.

Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
		esert bighorn sheep, mour		special status species (see wls, other raptors, reptiles,
				or wildlife passage or ald be installed on all new
	any other new technolog		rith guidelines develope	vers, solar power sites, and d by USFWS to minimize
Bat populations were not addressed in previous plans	method of mine closure protecting bat maternity		res would be an intermer-round use by bat color	diate measure for
Bat populations were not addressed in previous plans.	Existing quality and quantity of wash vegetation would be maintained within	Integrity of wash vegetation would be maintained within 1 mile of an		
	5 miles of an established bat species, especially special status bat species colonies (e.g., cave myotis [Myotis velifer], California leaf-nosed bat [Macrotus californicus]).	established bat species; especially, special status bat species colonies (e.g., cave myotis [Myotis velifer], California leaf-nosed bat [Macrotus californicus]).		f Lake Havasu City would aged to the extent possible
	The Bat Cave north of Lake Havasu City would be protected.			

Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
Not specifically addressed in previous plans	Density/distribution of wildlife waters throughout the planning areas would be maintained, improved, and/or increased to sustain and enhance wildlife populations across their range. All existing, functioning wildlife waters would be maintained or improved as necessary to maintain the presence of perennial water for wildlife. New wildlife waters may be constructed when necessary to maintain, restore, or enhance native wildlife populations and for wildlife distributions. Administrative motorized access by federal and state agencies to wildlife water facilities for maintenance or repair, research, observations, and supplemental water hauling would be allowed, subject to	Distribution of wildlife waters throughout the planning areas would be maintained to sustain and enhance wildlife populations across their range. All existing wildlife waters would be maintained or improved as necessary to maintain the presence of perennial water for wildlife. New wildlife waters, including in new locations, may be constructed if necessary to replace old wildlife waters, restore, or enhance native wildlife populations and for improving wildlife distributions	Distribution of wildlife waters throughout the planning areas would be maintained and improved to sustain and enhance wildlife populations across their range. All existing, functioning wildlife waters would be maintained or improved as necessary to maintain the presence of perennial water for wildlife. Administrative motorized access by federal and state agencies to wildlife water facilities for maintenance or repair, research, observations, and supplemental water hauling would be allowed, subject to site-specific analysis in non-motorized designations.	Distribution of wildlife waters throughout the planning areas would be maintained to sustain and enhance wildlife populations across their range. A existing wildlife waters would be maintained or improved as necessar to maintain the presence of perennial water for wildlife. New wildlife waters, including in new locations, may be constructed if necessary to replac old wildlife waters, restore, or enhance native wildlife populations and for improving wildlife distributions

Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
	site-specific analysis in non-motorized designations.			
Not specifically addressed in previous plans	and continued access to	water by wildlife on y	vildlife would include design ear-round basis. If it is no made whether to design th	
	lands would be built to directing or excluding v fence along a highway,	allow for wildlife passa vildlife from locations directing wildlife to a difically constructed for	age, unless the fence is spe for the protection of the wi corridor for safe highway of directing wildlife that obs	Idlife (e.g., desert tortoise crossing, etc.). Any
The following decision is derived from the 1987 YRMP and is applicable only to the lands covered by that plan:	All plant, seed, and other plant material collection would be	law and would only	ted protected plants would be authorized through state clude: collection within a	
Collection of small quantities of plant material for non-commercial recreation, hobby, or landscaping purposes would be permitted, except that the collection and	prohibited, except for educational, scientific, and/or Native American uses.	ay et al. 2002) of any one sy wood and cactus skeletons eoximate combined weight	under a state permit would	
possession of ironwood at any one time would be limited to three pieces with an approximate weight not to exceed 10 pounds.	awood at any one time BLM vegetation/seed collection permits vegetation permits vegetat			ges as stipulated within the
Not specifically addressed in previous plans	Protection would be provided for the scaly sandplant (<i>Pholisma arenarium</i>) and fringe-toed lizard (<i>Uma scoparia</i>), which exists on sandy soil and edges of washes within the low dunes (325 to 820 feet) southeast of Parker, Arizona, by requiring all vehicles to remain on existing roads and trails within the range of this rare plant.			
Not specifically addressed in previous plans				

Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
Not specifically addressed in previous plans	Fish habitat improvements in Lake Havasu would be maintained to sustain fish productivity by providing permanent escape cover and rearing habitat for young. Damaged artificial reef structures would be repaired if needed and replaced in the original location. This work would be accomplished cooperatively by the Lake Havasu Fisheries Partnership program.			
Not specifically addressed in previous plans	Plan for the Big-River F Management strate	, razorback sucker, and	ndo River Basin, as appr bute to and assist with	oved in 2005. n basin-wide recovery of
Aquatic habitat was not specifically addressed in previous plans.	A 300-foot no-wake zone would be provided in coves that are administered by BLM to protect the shore from erosion, prevent damage to riparian growth, and reduce noise to nesting wildlife.	No additional no-wake zones would be established.	No-wake zones would needed, to protect the prevent damage to rip noise to nesting wildli	shore from erosion, arian growth, and reduce
Not specifically addressed in previous plans	Monkey Head, the Needles Revegetation Site, Beale Slough, Standard Wash, and the Colorado River Nature Center Riparian Areas would be expanded in the future (see Map 2-45).	Monkey Head, the Needles Revegetation Site, Beale Slough, Standard Wash, and the Colorado River Nature Center Riparian Areas would be maintained in the future (see Map 2-45).	Beale Slough, Standar River Nature Center R	d to proper functioning
Not specifically addressed in previous plans	Specifically, vehicular access within the Lake Havasu Aubrey Hills to retrieve game within this closure	Exceptions may be granted to licensed bighorn sheep hunters with tags for specific bighorn sheep hunts to	Vehicular access with Aubrey Hills to retriev allowed.	

Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)	
	area would not be allowed.	allow vehicular access on approved administrative roads within the Lake Havasu Aubrey Hills only to retrieve game within this closure area.			
Not specifically addressed in previous plans		e with appropriate interests ver and tributaries to increa			
	BLM would coordinate with Parker Strip interests and other agencies to enhance the sport fishery below Parker Dam through the development of both aquatic and bank habitat improvements.				
The following decisions are derived from the 1995 KRMP and are applicable only to the lands covered by that plan:		would follow the managem	ent guidelines in the Ba	ld Eagle Conservation	
Prohibit camping, hiking, and off-highway	The following restriction in three buffer zones around all known nest would protect breeding attempts from adverse impacts:				
vehicles within 0.25 mile of a bald eagle nest during breeding season (January 1 to	Buffer Zone 1: 500-foot radius around the nest.				
June 1). During breeding season – December 1 to June 30: No activity of During non-breeding season – July 1 to November 30: No activity of During non-breeding season – July 1 to November 30: No activity of During non-breeding season – July 1 to November 30: No activity of During non-breeding season – July 1 to November 30: No activity of During non-breeding season – July 1 to November 30: No activity of During non-breeding season – July 1 to November 30: No activity of During non-breeding season – July 1 to November 30: No activity of During non-breeding season – July 1 to November 30: No activity of During non-breeding season – July 1 to November 30: No activity of During non-breeding season – July 1 to November 30: No activity of During non-breeding season – July 1 to November 30: No activity of During non-breeding season – July 1 to November 30: No activity of During non-breeding season – July 1 to November 30: No activity of During non-breeding season –					
active aeries during the breeding season (January 1 to June 1).	Buffer Zone 2: 500- to 1,000-foot radius around the nest.				
Prohibit road development within 2 miles of	During breeding	season – December 1 to Jun	e 30: Limited human a	ctivity.	
a bald eagle aerie.	During non-breeding season – July 1 to November 30: No activity should permanently change the landscape.				
	Buffer Zone 3: 1,000	to 2,500-foot radius aroun	d the nest.		
	During breeding season – December 1 to June 30: No activity should permanently change the landscape.				

Table 2-30. Biological Resource Management–Management Actions				
Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
			ovember 30: Maintenance but no activity should per	e activities such as upkeep emanently change the

Administrative Actions

- Wildlife habitat improvement projects would be implemented where necessary to stabilize or improve unsatisfactory or declining
 wildlife habitat condition. These projects would be identified through habitat management plans (under the Sikes Act), Inter-agency
 cooperative resource management plans (e.g., AGFD, CDFG, USFWS plans, etc.), and/or interdisciplinary coordinated resource
 management plans (e.g. ACEC, Wilderness).
- Acquisition of non-federal lands would be prioritized based on the potential to enhance the conservation and management of
 threatened or endangered species habitat, riparian habitat, desert tortoise habitat, key big game habitat, or improve the overall
 manageability of wildlife habitat.
- Based on changes in species density and/or habitat quality Sonoran desert tortoise habitat would be compensated in accordance with the Management Plan for the Sonoran Desert Population of the Desert Tortoise in Arizona 1996 or future updates.
- All riparian areas including springs within the WHAs would be assessed to achieve proper functioning condition or desired plant community composition for native species (see Maps 2-40, 2-44, and 2-45).
- BLM would cooperate on a landscape basis with other authorities to educate the community to the risks to the environment from invasive and noxious species. In cooperation with other authorities BLM would research the means of control, monitor the resources affected, and implement control actions when needed. Riparian, wetland areas, shoreline, and all springs (see Map 2-44 and 2-45) would be evaluated and invasive or noxious species would be eradicated if possible. Areas from which the invasive or noxious species are removed would subsequently be re-vegetated with suitable bank-stabilizing species.
- To help stop the spread of invasive or noxious weeds, BLM would provide educational material to equestrian users on the use of certified weed-free hay, straw, pellets, hay cubes, and processed grains.
- BLM would cooperate with other agencies to actively manage, protect, and/or improve special status species habitat to maintain and/or increase populations to achieve common goals and objectives. Wildlife habitat, both aquatic and terrestrial, would be managed in cooperation with the state and federal wildlife agencies and other interested parties to conserve or improve the habitat of all sensitive species, all native species, and those resident species that have recreational value.

BLM would participate in a coordinated effort to develop a scientific based inventory and evaluation process to periodically identify
species density and to possibly reevaluate desert tortoise categories following the criteria as set forth in *Management Plan for the*Sonoran Desert Population of the Desert Tortoise in Arizona 1996 or future updates.

- Areas classified as Category I, II, or III tortoise habitat would be reevaluated periodically by extensive scientific survey and the category could be updated by RMP amendment based on changes in species density.
- BLM would manage fish and wildlife habitats in cooperation with stakeholders to sustain diversified multiple-use habitat benefits in the planning area.
- Existing aquatic habitat improvements would be monitored periodically to document long-term durability and fishery results.
- BLM would work with local agencies and private entities through public outreach to minimize the risk of hazardous spills that occur
 on BLM lands. Operations to assure that the Colorado River meets water quality standards for fish and wildlife species would be
 actively reviewed.
- BLM would cooperate with other agencies to actively manage for native fish populations and habitat.
- BLM would coordinate and collaborate in the management of the Bill Williams River below Alamo Dam with neighboring landowners and appropriate state and federal agencies to sustain the river flow, vegetation and wildlife diversity, and wild and scenic outstandingly remarkable values.
- BLM would cooperate with appropriate interests to develop a cooperative watershed program to assure the use of best management practices in the watershed to safeguard against pollutant sediments degrading aquatic habitat conditions.

Management Common to All Alternatives

• BLM would quantify, file for, and protect water rights, including those for instream flows, on streams, springs, and other water sources important to wildlife, fish, and riparian values.

Fire Management

LHFO coordinates with other agencies to manage fire in accordance with the nationwide BLM fire policy. In 2003, the BLM Arizona State Office prepared the *Arizona Statewide Land Use Plan Amendment for Fire, Fuels and Air Quality Management* (AZLUP), which incorporates new management direction coming from the National Fire Plan and the 2001 Federal Fire Policy. Fire and fuels management are integrated with other management activities to benefit both natural resources and multiple uses on lands administered by BLM within Arizona and the portion of California that falls within LHFO and Yuma Field Office boundaries. Management prescriptions for each of the alternatives described below reflect that plan.

Management Common to all Alternatives

Desired Future Conditions

Fire is recognized as a natural process in fire-adapted ecosystems and is used to achieve objectives for other resources.

Fuels in Wildland-Urban Interface areas are maintained at non-hazardous levels to provide for public and firefighter safety.

Prescribed fire activities comply with federal and state air quality regulations.

Each vegetation community is maintained within its natural range of variation in plant composition, structure, and function. Fuel loads are maintained below levels that are considered to be hazardous. Desired future conditions for vegetation communities are listed in Table 2-31.

Table 2-31. Desired Future Conditions and Land Use Allocations for Vegetation Communities (See Map 2-46)				
Fire Specific Vegetation	Approximate Acreage	Desired Future Conditions	Land Use Allocation	
Community Type	Tiorenge		Category	
Desertscrub 3,500-4,500-ft elevation	35,424	Adequate cover and a mix of natural plant species that have good vigor. In terms of fire management and fire ecology, the desired future conditions are for fire to control or reduce exotic annual weeds such as red brome and to limit woody vegetation to non-hazardous levels.	2	

		re Conditions and Land Use Allocations for V (See Map 2-46)	egetation
Fire Specific Vegetation Community Type	Approximate Acreage	Desired Future Conditions	Land Use Allocation Category
Desertscrub below 3500 ft elevation	1,264,562	Adequate cover and a mix of natural plant species that have good vigor. In terms of fire management and fire ecology, the desired future conditions are for fire to control or reduce exotic annual weeds such as red brome and to limit woody vegetation to non-hazardous levels.	2
Interior Chaparral	4,603	Adequate cover and a mix of natural plant species that have good vigor. In terms of fire management and fire ecology, the desired future conditions are for fire to control or reduce exotic annual weeds such as red brome and to limit woody vegetation to non-hazardous levels.	1
Riparian/ Mesquite	41,963	Fire naturally maintains shrub cover while reducing annual grass cover, the invasion of woody plants such as juniper and piñon pine are controlled, and the average age of chaparral stands is reduced through controlled fire or mechanical treatment.	2

Land Use Allocations

As authorized in the AZLUP, BLM-administered public lands would be assigned to one of two Land Use Allocations for fire management. Within the LHFO area, the Harcuvar and Mohave mountain ranges fall into Allocation 1. The remainder of the LHFO falls within Allocation 2.

Description of Allocation 1

In Wildland Fire Use Areas (i.e., areas suitable for wildland fire use for resource management benefit), there are few or no constraints on use of fire to achieve resource objectives. Where conditions are suitable, unplanned and planned wildfire may be used to achieve desired objectives, such as to improve vegetation, wildlife habitat or watershed conditions, maintain non-hazardous levels of fuels, reduce the hazardous effects of unplanned wildland fires, and meet resource objectives. Where fuel loading is high but conditions are not initially suitable for wildland fire, mechanical, chemical, or biological means are used to reduce fuel loads below hazardous levels to meet resource objectives (includes Wildland-Urban Interface areas).

Description of Allocation 2

In Non-Wildland Fire Use Areas (i.e., areas not suitable for wildland fire use for resource benefit), mitigation and suppression are required to prevent direct threats to life or

property. Non-Wildland Fire Use Areas include those portions of the planning area where fire historically never played a large role in the development and maintenance of the ecosystem, as well as those areas where fire return intervals were very long. Also included are areas (including some Wildland-Urban Interface areas) where an unplanned ignition could have negative effects to the ecosystem unless some form of mitigation occurs. Mitigation may include mechanical, biological, chemical, or prescribed fire means to maintain non-hazardous levels of fuels, to reduce the hazardous effects of unplanned wildland fires, and to meet resource objectives.

The allocation of lands is based on the desired future condition of vegetation communities, ecological conditions, and ecological risks. The allocation of lands is determined by contrasting current and historical conditions and ecological risks associated with any changes. The condition class concept helps describe alterations in key ecosystem components such as species composition, structural stage, stand age, canopy closure, and fuel loadings. BLM Fire Management Plans will include the two allocations and will identify areas where the use of fire may be included. Also specified will be mechanical, biological, or chemical means to maintain non-hazardous levels of fuels and thereby reduce the hazardous effects of unplanned wildland fires and meet resource objectives. Fire Management Plans will also identify areas for exclusion from fire (through fire suppression), and chemical, mechanical, and/or biological treatments to achieve that end.

Management Actions

The following decision was derived from the 1987 YRMP and will be applicable to the entire planning area: Fires on or threatening public lands would be suppressed and fuels would be managed in accordance with BLM fire policy, agreements with other government agencies, approved modified fire suppression plans, relevant resource management plans, and the AZLUP. The structure of the fire management organization and fire management implementation guidance can be found in the Yuma-Lake Havasu Zone Fire Management Plan.

In areas suitable for fire where fuel loading is high and current conditions constrain fire use, BLM will emphasize prevention and mitigation programs to reduce unwanted fire ignitions, and use mechanical, biological, or chemical treatments to mitigate the fuel loadings and meet resource objectives.

In areas suitable for fire and where conditions allow, BLM will allow naturally ignited wildland fire, use prescribed fire, and employ a combination of biological, mechanical, and chemical treatments to maintain non-hazardous levels of fuels, reduce the hazardous effects of unplanned wildland fires, and meet resource objectives.

In areas suitable for fire, BLM will monitor existing air quality levels and weather conditions to determine which prescribed fires can be ignited and which, if any, must be delayed to ensure that air quality meets federal and state standards. If air quality approaches unhealthy levels, BLM will delay igniting prescribed fires.

BLM will implement conservation measures during fire suppression and all fire management activities as required, to minimize or eliminate adverse effects to federally threatened, endangered, proposed, and candidate federally protected species and habitats, unless firefighter, public safety, protection of property, improvements or natural resources render them infeasible during a particular operation (Approved LUP and Decision record 9/28/2004). Conservation measures noted as recommended in Appendix M are not mandatory for implementation to help minimize effects to federally protected species and to provided consistency. Procedures within the Interagency Standards for Fire and Fire Aviation Operations 2003, including future updates, relevant to fire operations that may affect federally protected species or their habitat are incorporated here by reference.2

BLM will undertake education, enforcement and administrative fire prevention mitigation measures to reduce human-caused fires. Education measures will include various media information including a signing program, information as to the natural role of fire within local ecosystems, participation in fairs, parades, and public contacts. Enforcement will be accomplished by providing training opportunities for employees interested in fire cause determination. Administration includes expanded prevention and education programs with other cooperating agencies.

Firefighter and public safety is the first priority in every fire management activity. Setting priorities among protecting human communities and community infrastructure, other property and improvements, and natural and cultural resources must be based on the values to be protected, human health and safety, and costs of protection (2001 Federal Wildland Fire Management Policy).

During fire suppression actions, resource advisors may be designated to coordinate concerns regarding federally protected species, and to serve as a liaison between the field office manager and the incident commander/incident management team. They will also serve as a field contact representative responsible for coordination with USFWS. The resource advisors will have the necessary information on federally protected species and habitats in the area and the available conservation measures for the species. They will be briefed on the intended suppression actions for the fire, and will provide input on which conservation measures are appropriate, within the standard constraints of safety and operational procedures. The incident commander has the final decision-making authority on implementation of conservation measures during fire suppression operations.

Because of the number of species located within the action area for the proposed RMP, combined with a variety of fire suppression and proposed fire management activities, conflicts may occur in attempting to implement all conservation measures for every species potentially affected by a particular activity. Implementing these conservation measures effectively would depend on the number of federally protected species and their individual life history or habitat requirements within a particular location that is being affected by either fire suppression or a proposed fire management activity. This would be particularly true for timing restrictions on fuels treatment activities if the ranges of several species with differing restrictions overlap, making effective implementation of the activity unachievable. Resource advisors (in coordination with USFWS), fire management officers or incident commanders, and other resource specialists would need to coordinate to determine which conservation measures would be implemented during a particular activity. If conservation measures for a species cannot be implemented, BLM would be required to initiate Section 7 consultation with USFWS for that particular activity.

In WAs, WSAs, and areas with wilderness characteristics according to wilderness plans or the RMP, when suppression actions are required, minimum impact suppression tactics (Interagency Standards for Fire Operations 2003) would be applied and coordinated with WA management objectives and guidelines.

Fire management activities along National Historic Trails will be conducted to assure no adverse effects occur to those resources and values identified in the legislation designating the trail.

ACECs and Back Country Byways are established in the RMP. The desired conditions and management prescriptions for these special areas will be considered in implementing fire management activities.

Fire Suppression Actions

The following constraints to fire suppression actions are common to all alternatives:

- Suppression tactics will be utilized that limit damage or disturbance to the habitat and landscape. No heavy equipment will be used (such as dozers) unless approved the field office manager.
- Use of fire retardants or chemicals adjacent to waterways will be accomplished in accordance to the Environmental Guidelines for Delivery of Retardant or Foam near Waterways (Interagency Standards for Fire and Aviation Operations pages 8–13).
- All known cultural resources will be protected from disturbance.
- In WAs, WSAs, and lands with wilderness characteristics according to LUPs, when suppression actions are required, minimum impact suppression tactics (Interagency Standards for Fire and Aviation Operations 2003) would be utilized and coordinated with WA management objectives and guidelines.
- The general and species-specific conservation measures listed in Appendix D of the AZLUP (USDI-BLM 2004) will be implemented to the extent possible to minimize adverse effects to federally listed, proposed, or candidate species occurring within the action area.
- For fire suppression activities, a protocol for consultation has been developed as a part of the Biological Opinion for the AZLUP (USDI-BLM 2004). This programmatic consultation contains conservation measures and prescriptions for use in fire suppression activities. Emergency consultation should only be needed in the future if suppression actions fall outside of these prescriptions/measures. The Biological Opinion will outline coordination needs for emergency response actions that may affect a listed/proposed species and/or critical habitat.

The following protocol will apply:

BLM will contact the appropriate USFWS biologist as soon as practical once a wildfire starts and a determination is made that a federally protected species and/or its habitat could be affected by the fire and/or fire suppression activities. USFWS will work with BLM during the emergency response to apply the appropriate conservation measures. If conservation measures cannot be applied during the suppression activities, BLM will

need to consult after the fact on any suppression actions that may have affected the federally protected species or its habitat. If conservation measures are adhered to, then BLM will report on the actions taken and effects to the species and its habitat following the fire, but no further consultation on that incident will be required.

Visual Resource Management

Public lands have a variety of visual values. Because it is neither desirable nor practical to provide the same level of management for all visual resources, it is necessary to systematically identify and evaluate these values to determine the appropriate level of management. Visual management objectives are established in RMPs in conformance with the Land Use Allocations made in the plan. (BLM Manual 8400.07A)

Visual resource values are managed in accordance with VRM class objectives. VRM classes are allocated for all areas of BLM-administered land, based on an inventory of visual resources and management considerations for other land uses. VRM management classes may differ from VRM inventory classes, based on management priorities for land uses (see BLM Handbook H-8410-1). Once allocated in the approved RMP and Record of Decision, other resource uses and management activities would be managed to conform to applicable VRM objectives established in the approved RMP.

The following criteria were used in determining the potential VRM Class allocations for each RMP alternative:

- The overall management emphasis intended for each alternative.
- Recognize all applicable Special Area Designations and all Land Use Allocations as VRM classifications are applied.
- Assure that other management activities and land uses being provided for in a specific area may be achieved within the VRM Class objective being set, consistent with Special Area Designations and Land Use Allocations.
- Use of the least restrictive class that still achieves objectives to attain Desired Future Conditions.

Table 2-32. Visual Resource Management–Desired Future Conditions

Common to All Alternatives

VRM Class I – The objective of this class is to preserve the existing character of the landscape. This class provides for the natural ecological changes; however, it does not preclude very limited management activity. The level of change of the characteristic landscape should be very low and must not attract attention.

VRM Class II – The objective of this class is to retain the existing character of the landscape. The level of change to the characteristic landscape should be low. Management activities may be seen, but should not attract the attention of the casual observer. Any changes must repeat the basic elements of form, line, color, and texture found in the predominant natural features of the characteristic landscape.

VRM Class III – The objective of this class is to partially retain the existing character of the landscape. The level of change to the characteristic landscape should be moderate. Management activities may attract attention but should not dominate the view of the casual observer. Changes should repeat the basic elements found in the predominant natural features of the characteristic landscape.

VRM Class IV – The objective of this class is to provide for management activities that require major modification of the existing character of the landscape. The level of change to the characteristic landscape can be high. These management activities may dominate the view and be the major focus of viewer attention. However, every attempt should be made to minimize the impact of these activities through careful location, minimal disturbance, and repeating the basic elements.

Above descriptions of class objectives come from BLM Handbook H-8410-1, Visual Resource Inventory

Table 2-33. Visual Resource Management–Land Use Allocations in Acreage				
Alternative 1 (No Action) as Shown in Map 2-47	Alternative 2 as Shown in Map 2-48	Alternative 3 as Shown in Map 2-49	Alternative 4 as shown in Map 2-50	Alternative 5 (Preferred) as Shown in Map 2-51
Class I				
120,600	246,500	120,600	179,200	179,150
Class II				
306,800	524,600	202,600	202,200	253,361
Class III				
363,600	207,900	620,100	568,700	520,949
Class IV				
572,300	384,300	420,000	413,200	409,840

Table 2-34. Visual Resource Management–Management Actions				
Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
Common to All Alternatives				

Visual resource design techniques and best management practices would be used to mitigate the potential for short- and long-term visual impacts from other uses and activities

Contrast ratings may be required for projects proposed on public lands that fall within VRM Class I, II, and III areas which have high sensitivity levels as identified through the VRM inventory. Contrast-rating procedures are described in Handbook H-8341-1 and outlined in the Typical Management Actions & Standard Operating Procedures section of this chapter.

	State Route 95				
NA	BLM would work with local communities and agencies to establish a scenic corridor on SR 95 from its junction with Interstate 40 to the Bill Williams River, a distance of approximately 40 miles, excepting areas within the city limits of Lake Havasu. The width of the scenic corridor would be 0.5 mile to either side of the paved shoulders of SR 95 (Map 2-48).	BLM would not establish a scenic corridor.	BLM would protect the scenic quality in a corridor on each side of SR 95 from south of Lake Havasu City to the Bill Williams River, a distance of approximately 20 miles. The width of the corridor would be 0.5 mile to either side of the paved shoulders of SR 95 (Map 2-51) Public lands in this scenic corridor would generally be managed to VRM Class II or III objectives. Physical improvements to existing leases or activities such as ROWs would be managed per existing agreements.		
	Public lands within this scenic corridor would be managed to VRM Class II				

Table 2-34. Visual Resource Management-Management Actions

objectives. To meet Class II objectives, no new leases for commercial activities without prior visual modeling to assure compliance with Class II objectives would be permitted.

Wilderness Characteristics

BLM has authority under FLPMA Section 201 to inventory public land resources and other values, including characteristics associated with the concept of wilderness identified as naturalness, solitude, and primitive, unconfined recreation. Wilderness characteristics may be considered in land use planning when the BLM determines that those characteristics are reasonably present, of sufficient value (condition, uniqueness, relevance, importance) and need (trend, risk), and are practical to manage (Instruction Memorandum No. 2003-275-Change 1). (See Appendix K.) BLM may allocate areas within the planning boundaries of this RMP to prescribe goals, objectives, and Management Actions that will maintain wilderness characteristics. BLM has evaluated citizen group proposals to identify lands with wilderness characteristics, and where valid, along with any additional lands that BLM recognizes as having wilderness characteristics, those lands are considered in this RMP.

The FLPMA Section 603 "non-impairment standard" or Interim Management Policy for Lands under Wilderness Review will not be applied to management of wilderness characteristics. Additionally, wilderness characteristics will not be managed as designated wilderness under the Wilderness Act of 1964.

Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)	
Not addressed in previous plans	The following wilder allocated:	rness characteristics would	d be maintained or enhance	ed where lands are	
	Naturalness – Lands and resources exhibit a high degree of naturalness when affected primarily by the forces of nature and where the imprint of human activity is substantially unnoticeable. Naturalness attributes may include the presence or absence of roads and trails, fences, wildlife facilities and other improvements; the nature and extent of landscape modifications; the presence of native vegetation communities; and the connectivity of habitats. Wildlife populations and habitat are recognized as important aspects of the naturalness and will be actively managed.				
	<u>Solitude</u> – Visitors may have outstanding opportunities for solitude when the sights, sounds, and evidence of other people are rare or infrequent, where visitors can be isolated, alone or secluded from others.				
	<u>Primitive and Unconfined Recreation</u> – Visitors may have outstanding opportunities for primitive and unconfined types of recreation where the use of the area is through non-motorized, non-mechanical means, and where no or minimal developed recreation facilities are encountered.				

Table 2-36. Wilderness Characteristics-Land Use Allocations					
Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)	
Not addressed in previous plans	197,821 acres (see Map 2-52)	0	41,590 acres. (See N	Map 2-53.)	

Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
Not addressed in previous plans	Use of motor vehicles and mechanical transport, and the construction of temporary roads, structures, and installations would be allowed for emergency purposes.	NA	and the construction of	ations would be allowed
Not addressed in previous plans	The administrative use of motorized equipment would be minimized for natural and cultural resource management. Such use would be authorized only when it is determined use of such equipment is appropriate and consistent with management prescriptions for the area.	NA	The administrative use of motorized/mechanize equipment for natural and cultural resource management would be allowed. Activities including but not limited to, water supplementation, collar retrieval, and capture/release of wildlife, maintenance/repair and reconstruction or construction of wildlife waters.	

Table 2-37. Wilderness Chara	cteristics-Management	Actions		
Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
Not addressed in previous plans	Surface-disturbing activities or the permanent placement of structures would not be allowed, including but not limited to range improvements, water catchments, roads, trails, and fencing, unless required by law.	NA	New structures, including roads or trails, could be authorized to protect public safety, cultural sites, wildlife, ecological conditions, or as required by law.	Surface-disturbing activities or the permanent placement of structures would be allowed only when substantially unnoticeable in the landscape, subject to criteria outlined below. ¹
Not addressed in previous plans	Convert, where appropriate, closed vehicle routes for use as bicycle, equestrian, or hiking trails.	NA	Develop new hiking and equestrian trails, as appropriate.	Develop and maintain recreation facilities only when compatible with maintaining wilderness characteristics or when needed to protect resources or provide for public safety.
Not addressed in previous plans	Maintenance of existing facilities would be allowed.	NA	Maintenance of existing allowed.	g facilities would be
Not addressed in previous plans	At time of renewal of any existing rights-of- way, BLM would discuss with the grant holder the possibility of relocating the right- of-way outside of lands allocated to maintain wilderness	NA	Decrease the visual effe naturalness or scenic re opportunity arises, duri replacement, or major r	sources, when the ng reconstruction,

Table 2-37. Wilderness Chara				Alternative 5
Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	(Preferred)
	characteristics.			
Not addressed in previous plans	Vending operations and concession leases would be prohibited.	NA	Commercial recreation, vending operations, and concession leases would be allowed when such activities conform to to land use plan objectives, desired recreation settings, social and managerial settings, and VRM classes.	Vending operations and concession leases would be prohibited.
Not addressed in previous plans	Public lands within wilderness characteristics allocations will be retained in public ownership	NA	Public lands within wilderness characteristics allocations will be retained in public ownership	
Not addressed in previous plans	Acquire State and private inholdings from willing sellers whenever practicable, within wilderness characteristics allocations	NA	Acquire State and private inholdings from willing sellers whenever practicable, within wilderness characteristics allocations	
Not addressed in previous plans	Recreational or hobby collecting of mineral specimens when conducted without location of a mining claim and limited to	NA		cted without location of a ed to hand collection and

Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
	hand collection and detection equipment may be allowed.			
Not addressed in previous plans	Existing mineral leases represent a valid existing right, dependent upon the specific terms and conditions of the lease. Existing leases will be regulated to prevent unnecessary or undue degradation.	NA	Existing mineral leases right, dependent upon the conditions of the lease. regulated to prevent unrudegradation.	Existing leases will be
Not addressed in previous plans	Any new mineral leases would be issued with a no surface occupancy stipulation	NA	Any new mineral leases would be issued with a no surface occupancy stipulation	Mineral leases would be authorized on wilderness characteristics allocations when there would be no lasting impacts to solitude, unconfined recreation, and naturalness.
Not addressed in previous plans	Do not authorize sales of mineral materials	NA	Mineral material remove authorized on wilderness allocations when there wimpacts to solitude, unconaturalness.	s characteristics would be no lasting
Not addressed in previous plans	Existing livestock grazing operations and support facilities are allowed to continue.	NA	Existing livestock grazing operations and support facilities are allowed to continue.	
Not addressed in previous plans	During fire suppression	NA	During fire suppression	operations, minimum

Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
	operations, minimum impact suppression techniques would be used.		impact suppression to	echniques would be used.
Not addressed in previous plans	Prescribed fires are allowed in conformity with a fire management plan so long as it is consistent in improving or maintaining the area's wilderness characteristics.	NA		
Not addressed in previous plans	Vegetative manipulation to control noxious, exotic, or invasive plant species is allowed when there is no effective alternative and when the control is necessary to maintain the natural ecological balances within the area. Control may include manual, chemical, and biological treatment provided it would not cause adverse impacts to the wilderness characteristics.	NA	Vegetative manipulation to control noxious, exotic, or invasive plant species is allowed where is no effective alternative and when the control is necessary to maintain the natural ecological balances within the area. Control may include manual, chemical, and biological treatment provided it would not cause adverse impacts to the wilderness characteristics.	
Not addressed in previous plans	Rehabilitation, stabilization,	NA		ization, reconstruction, and orehistoric and historic sites

Table 2-37. Wilderness Characteristics-Management Actions					
Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)	
	reconstruction, and restoration work on prehistoric and historic sites and structures, as well as, excavations and surface collection may be specifically permitted if wilderness characteristics area maintained.		surface collection ma	Il as, excavations and ay be specifically permitted eristics area maintained.	

¹ Project consideration criteria: In general, projects with a small footprint that, across the area as a whole, would benefit maintenance of wilderness characteristics and are compatible with other resource objectives could be approved. Criteria to consider include:

- need for project to protect natural and cultural resources
- opportunity to manage and control public use or provide for public safety
- opportunity to restore or enhance natural, cultural, or visual resources and meet resource objectives
- long-term effect (positive or negative) on naturalness and resources
- ability to restore the use area after the project is completed to its previous natural state
- size and scale of project
- compatibility with the specified visual resource management zone and recreation settings
- loss of opportunity for solitude and primitive recreation
- potential for use to be accommodated outside of area.

When approved, projects would be completed using the least impacting methods that can be reasonably used to accomplish the project, considering resource effects as well as labor effort and cost, including designs for the facility to blend into the landscape, consideration of site selection and use of a low profile, design facilities that will require minimal maintenance, and use of best management practices to minimize surface and vegetation disturbance during construction. When completed, a restoration plan would be implemented to actively restore disturbed areas.

Administrative Actions

Sites and areas affected by human activities would be reclaimed when such locales or sites are no longer needed by authorized land uses.

At time of renewal of any existing ROWs, BLM would discuss with the grant holder the possibility of relocating the ROW outside
of lands allocated to maintain wilderness characteristics. Remove facilities that are no longer used.

- Existing and new operations for locatable mining will be regulated using the 43 CFR 3809 regulations to prevent unnecessary and undue degradation of the lands.
- AGFD's use of motorized and mechanized equipment off designated routes is considered an administrative use and will be allowed in suitable locations (as agreed to by BLM and AGFD) for such purposes as the following:
 - water supplementation;
 - □ collar retrieval;
 - □ capture and release of wildlife;
 - maintenance, repair, and building or rebuilding of wildlife waters; and
 - □ discretionary surface-disturbing activities would be addressed as provided for in Management Actions.

Wild Horse and Burro Management

BLM is responsible for the management of wild horses and burros in accordance with the Wild Free-Roaming Horse and Burro Act of 1971, as amended 1976 and 1978. No viable wild horse herds were identified within the planning area during initial inventories following passage of the Wild Horse and Burro Act; therefore, this plan will only address wild burros. The management of wild burros on public land is accomplished at the minimum level necessary to assure the herd's free-roaming character, health, and self-sustaining ability in accordance with the Act. Herd areas (HAs) are limited to the geographic areas identified as being habitat used by wild burros at the time of passage of the Act (Map 2-54). Herd Management Areas (HMAs) are established on areas within HAs through the land use planning process, within which wild burros can be managed for the long term. Upon designation as an HMA, wild burros shall be managed as an integral component of the public lands on the basis of multiple uses and in a manner that maintains an ecological balance.

HMA boundaries depicted on Map 2-55 are based on information available in the current land use plans: Lower Gila North Management Framework Plan (1983), 1995 Kingman Resource Area Resource Management Plan, Yuma District Resource Management Plan (1985), and the Lower Gila North Grazing EIS (1982). This RMP provides analysis of various HMA boundaries for wild burros in the planning area.

See Maps 2-55, 2-56, 2-57, and 2-58 for proposed HMA boundary changes by alternative. See Table 2-38 for Desired Future Conditions, Table 2-39 for Land Use Allocations, Table 2-40 for Management Actions, Table 2-41 for proposed initial Appropriate Management Levels (AML) for wild burros and Table 2-42 for proposed HMA acreages based on the boundary changes by alternative.

Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
The following decision is derived from the 1983 LGNMFP and is applicable only to those lands covered by the LGNMFP:	thriving natural ecolo	ogical balance with other	be maintained within the resources and consistent wan and upland vegetation,	C
A viable, color-diverse burro population of				
200 animals would be maintained in the Alamo HMA; however, burro numbers in				
the remaining herd areas (in the Lower Gila North Management Framework Plan Area)				
would be reduced to zero.				

Table 2-39. Wild Horse and Burro Management-Land Use Allocations				
Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
The following decision is derived from the 1987 YRMP and is applicable only to those lands covered by the YRMP: Wild horses and burros would continue to be managed in accordance with the herd plans. Excess animals would be removed as necessary to protect forage resources.	including the Alamo W excluded from determin HMA. Wild burros that Horse and Burro Act; th The California side of the the Northern and Easter Havasu-CA HMA with HMA and the initial AM	he Havasu HMA (Havasu- rn Colorado Desert Coordi the Chemehuevi HMA. T ML would be 108 burros.	luded from HMAs. The nagement Level (AML) art of their habitat remainons remain the responsible CA HMA) would be manated Management Plan The combined area would	se lands would be for burros within the in protected under the Wild wility of BLM. In aged in accordance with it, which combines the id be named Chemehuevi
	the Little Harquahala H	ility analysis found in App A boundaries; therefore, the maintain a burro herd in the	ne HA will not be design	
The following decision is derived from the 1995 KRMP and is applicable only to those lands covered by the KRMP:		ion is not carried forward tions at 43 CFR 4710.5(b)		nt of regulations. See the
Public lands within HMAs would be closed to domestic horses and burros, subject to immediate impoundment.				
The HMA boundary would be as shown on Map 2-55, and includes public land and those lands within the Alamo Wildlife Area.	Based on threatened and endangered species, riparian, and wildlife issues, the eastern Alamo HMA boundary would follow the western Palmerita Allotment boundary, excluding Alamo Wildlife Area, state, and private land.	The Alamo HMA boundary would be the same as the current HMA boundary from Alternative 1 plus HA lands to US 93, excluding the Alamo Wildlife Area, state, and private land. Management prescriptions for acceptable use levels would mitigate impacts to other	run west from the sout Alamo Wildlife Area, from the state land blo Allotment, excluding state, and private land provide protection for	and then extend south ack within the Palmerita the Alamo Wildlife Area, This demarcation would

		resources.	
See above.	The area north of Lake Havasu City (west of SR 95 and east of the Colorado River) would be excluded from the Havasu HMA due to increasing population pressures, traffic concerns, and refuge conflicts.	The Havasu HMA boundary would continue to be the same as the HA boundary.	The area north of Lake Havasu City (west of SR 95 and east of the Colorado River) would be excluded from the Havasu HMA due to increasing population pressures, traffic concerns, and refuge conflicts.
Not addressed in previous plans			d on the AMLs in the existing plans, the effects of ing monitoring data, which is the basis for the AML

Table 2-40. Wild Horse and Burro Management-Management Actions				
Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)
The following decision is derived from the 1987 YRMP and is applicable only to those lands covered by the YRMP: LHFO would not allow water developments for horses and burros that would expand their present herd areas.	This is not carried fo Herd Areas.	rward because BLM is pro	phibited by law to manage	for wild burros outside of
The following decision is derived from the 1983 LGNMFP and is applicable only to those lands covered by the LGNMFP: Access to Alamo Lake would be maintained for the wild burro herd in the Alamo HMA. Free access for wild burros would be maintained to livestock-watering facilities in the Alamo HA.	conservation purpose Wildlife Coordinatio Wildlife Area are our indicated that they w plan. BLM would m Alamo Wildlife Area would be consistent. Burro Act of 1971, a BLM does not intend HAs, nor maintain be will occur within the Plan. Burro use may cooperatively with A BLM and AGFD wo within specific areas AGFD and compatib Wildlife Area Manag The level of burro us cooperatively determ BLM, AGFD, and U riparian habitat. AG purposes of the wildlife the key areas. Ac established within the BLM would target by	es and objectives for the An Act and the Endangered thined in AGFD's Alamo ville periodically (approximanage the burros in consumanage amended 1976 and 1978 and 1978 and 1978 and 1978 and USFWS. The consumanage is and object the Alamo Wildlife Are in compatible and a consumanage in consumanage and and in consumanage in consumanage and in consumanage in co	Species Act. The purpos Wildlife Area Management ately every 5 years) review lation with AGFD and US sions concerning burros wilations, including the Wildlife outside of HMA boundant have not been designate outlined in the Alamo Wildlife aria and Big Sandy corrider on provide wild burros acceptable within the Alamo and identified in the Alamo and identified in the Alamo er to establish key monito believe burro use would be pring of live trees does not go sites and associated lever resource damage by burro habitat areas and work wi	the mandates of the Fish and the sand objectives for the stand Plan. AGFD has wand possibly revise the SFWS consistent with the ithin the wildlife area defree-Roaming Horse and the standard st

Table 2-40. Wild Horse and Burro Alternative 1 (No Action)	Alternative 2	Alternative 3	Alternative 4	Alternative 5 (Preferred)			
	sensitive habitats. BLM would evaluate all monitoring data, population data, and removal data every five years to assess whether the current AML continues to be appropriate for all HMAs (Havasu and Alamo). During the evaluation process, monitoring protocols and additional data needs would be analyzed. The evaluation would consider acceptable levels of use within the Alamo Wildlife Area. The evaluation and any adjustments in AML would be conducted in coordination and consultation with the AGFD and FWS. The AGFD has stated that they would periodically re-evaluate monitoring and acceptable burro use levels within the Alamo Wildlife Area. Every effort would be made to insure that these evaluations occur as concurrently and collaborative as feasible.						
Construction of new structures within HMAs that would restrict burro movement would be limited or modified.	Any new fence construction within burro HMAs would not prevent burro access to water, unless the water has been developed for a specific purpose (such as wildlife catchments) that would make it necessary to exclude burros.						
Not addressed in previous plans.	The guidelines and criteria for adjusting AML would include the use of monitoring data and be coordinated with affected resources and agencies. The simultaneous double-count technique (a census technique used by BLM Arizona and Arizona Game and Fish to estimate the wild burro population) developed in cooperation with AGFD will continue to be an acceptable method for estimating burro populations.						
None identified	Burro information would continue to be included on informational kiosks such as those currently at Swansea)	Burro information woul HMAs.	d be included on bulleti	n boards and kiosks within			
Not addressed in previous plans.	Burros would be removed from all areas where burro crossings cause a hazard.	The ADOT would be requested to create accessible underpasses on SR 95 during reconstruction activities for access by wild burros and wildlife to cross under the road.	emergency/nuisance r priority to correct pub removals would be to BLM would work wit of Transportation to c	h the Arizona Department reate accessible safe federal highways during es for access by wild			

Table 2-41. Initial Appropriate Management Levels for Wild Burros. (This is the number of wild burros to be managed within the HMA.)

НМА	Alt 1 (No Action)	Alt 2	Alt 3	Alt 4	Alt 5 (Preferred)
Alamo	200	160	200	160	160
Havasu-AZ	170	166	170	166	166
Havasu-CA/ Chemehuevi	150 ^a	108a	108a	108 ^a	108

Notes:

The initial AML levels would be adjusted based on the AMLs in the existing plans and the effects of boundary changes on the critical area, which is the basis for the AML.

^a Havasu-CA AML is shared with the Chemehuevi HMA in California.

Table 2-42.					
НМА	Alt 1 (No Action)	Alt 2	Alt 3	Alt 4	Alt 5 (Preferred)
Alamo	277,017 ^a	182,576	288,263	189,237	189,237
Havasu-AZ	282,576	268,271	282,576	268,271	268,271
Havasu-CA/ Chemehuevi	25,945 ^b	24,318 ^b	24,318 ^b	24,318 ^b	24,318

Notes:

^a In Alternative 1, acres include the Alamo Wildlife Area.

^b Acres shown for Havasu-CA/Chemehuevi HMA include only the acres for the Havasu side in California.